

# CORROSION MONITORING IN ETHYLENE FACILITIES

Enhance the safety and operational efficiency of your ethylene facility while avoiding expensive downtime due to corrosion.

## Corrosion Challenges in Ethylene Facilities

Large ethylene facilities often spend **millions of dollars annually on corrosion abatement** and acid gas remaining in the cracked gas can cause **downstream corrosion issues**.

Key areas of concern for this issue include:

- Acid gas piping and caustic scrubber tower
- Furnace tubes
- Amine stripper overhead
- Cracked gas compressor inter-cooler vessels and piping
- Dilution steam drums
- De-ethanizer overhead system

## Emerson's Corrosion Monitoring Solutions

Monitor for corrosion **in real-time** with **Emerson's Rosemount™ Wireless Corrosion and Erosion Transmitters**.

These systems are non-intrusive, allowing you to monitor for corrosion without disrupting operations.

Understand **when and why corrosion occurred** and **plan for the future** with **Emerson's Plantweb Insight™ Non-Intrusive Corrosion Application**. The thickness data from the sensors **supports the Root Cause Analysis** and allows you to **perform predictive maintenance**. This app also helps you visualize trends and results to inform operational decisions, improving response times to corrosion issues.

For more information, visit  
[Emerson.com/Corrosion-Erosion](https://www.emerson.com/corrosion-erosion)

The Emerson logo is a trademark and service mark of Emerson Electric Co. Rosemount is a registered trademark of one of the Emerson family of companies. All other marks are the property of their respective owners.  
© 2024 Emerson Electric Co. All rights reserved.

00807-0500-3636 Rev AA



*Unmonitored corrosion can cause expensive downtime.*

### The Impact of Emerson's Continuous Corrosion Monitoring Solutions



**Enhance Safety:** Decrease the risk of corrosion-related incidents that could lead to hazardous situations, ensuring a safer working environment.



**Reduce Costs:** Proactive management of corrosion extends the lifespan of equipment, minimizing replacement and maintenance expenses and improves uptime and productivity.



**Optimize Operations:** Timely insights into corrosion trends allow for better decision-making and resource allocation, improving overall operational efficiency.



*Emerson's Rosemount Wireless Corrosion and Erosion Transmitters continually monitor for both corrosion and erosion.*